This document describes how to use the IBM Software Installer technology to create a silent, or unattended, installation procedure to distribute Norton AntiVirus for OS/2 over a network. This document should be used in conjunction with the Software Installer documentation.

The administration utility program supplied with Norton AntiVirus for OS/2, NAVOS2UP.EXE, can be added to a user's login script to create a silent install package. Parameters in the IBM Installer's Package and Response files, together with the NAVOS2UP.EXE configuration file, NAVOS2UP.INI, are combined to create this installation.

Overview

Although there are other ways to install Norton AntiVirus for OS/2, the most efficient way is to run a network-based silent installation procedure by launching NAVOS2UP.EXE from the user's login script. NAVOS2UP.EXE uses the values set in NAVOS2UP.INI to control its operation.

Steps

The following steps list the requirements to create a silent install procedure for Norton AntiVirus for OS/2:

1. Create a Response file that includes the parameters listed in this document, or use the sample provided with Norton AntiVirus for OS/2, **sample.rsp**. The name of the response file must match the name in the NAVOS2UP.INI command line value inserted for LaunchApplication.

2. Edit the NAVOS2UP.INI file to match the Response file parameters.

3. Run NAVOS2UP.EXE from a workstation to verify the parameters.

4. Review the Log file to troubleshoot any problems with the installation and edit the Response and NAVOS2UP.INI files to correct any problems.

5. When the package has been verified, Add a command line in the user's login script that launches NAVOS2UP.EXE.

1. Create the Response file

You can use the Response file supplied with Norton AntiVirus for OS/2, **sample.rsp**, which contains the parameters discussed in this document. Response files are flat ASCII files that consist of response lines with the syntax **keyword = value**.

Keywords used in this sample response file **sample.rsp** are:

FILE (conditionally required)
Provides the new default path for the file directory. This FILE value is used in place of the FILE keyword of the PATH entry in the package file. This keyword is required if you have specified a FILE keyword in the PATH entry.

AUX1 (conditionally required)
Specifies the new default path for the auxiliary directory, where n is any number between 1 and 18 (providing for up to 18 possible auxiliary directories, AUX1, AUX2, … AUX18.)

COMP (conditionally required)
Specifies the unique name of a component of the product for which passed information applies. There can be a maxi um of 100 components. THE COMP value must match the NAME keyword of the COMPONENT entry in the package file.

CFGUPDATE (required)
Specifies whether the CONFIG.SYS file is automatically updated. Valid values for this keyword are:
AUTO – Automatically updates the CONFIG.SYS
MANUAL – Does not update the CONFIG.SYS.

OVERWRITE (required)

Specifies whether to automatically overwrite files during installation. Valid values for this keyword are YES and NO.

SAVEBACKUP (required)

Specifies whether to save a backup version of the product when it is updated. Valid values for this keyword are YES and NO. This keyword is required for unattended processing.

DELETEBACKUP (required)

Specifies whether to delete only the backup version of the product or to delete the entire product. Valid values for this keyword are YES and NO.

2. Edit the NAVOS2UP.INI file

The contents of the NAVOS2UP.INI file supplied is the following. You must edit this and replace the LaunchApplication value with :

INSTALL /P:"Norton AntiVirus" /C:C:\INSTALL\NAVOS2.ICF /R:C:\INSTALL\NAVOS2.RSP /L1:c:\ktemp\NAVOS2.log /X

NAVOS2UP.INI Contents:

```
        [Action]
        Install=TRUE
        UpdateVirusDefs=TRUE

        [Install]
        SourceLocation=<serverpath\server\folder>
        LaunchApplication=install.exe /silent
        CheckAlreadyInstalled=TRUE
        CheckVersionStamp=5.1

        [UpdateVirusDefs]
        SourceLocation=\\serverpath\servername\
        LaunchApplication=navluos2.exe /silent
        RollOutINIFileBeforeLU=TRUE
        INIFile=NAVLUOS2.INI
```

In the **[INSTALL]** section of **NAVOS2UP.INI** file, replace the value of the keyword **LaunchApplication** with the command line below, replacing the drive and pathnames with the appropriate pathnames for your network: (This line is also in the **it002.cmd** file in the \Admtools\OS2 folder on the Solutions CD.

INSTALL /P:"Norton AntiVirus" /C:C:\INSTALL\NAVOS2.ICF /R:C:\INSTALL\NAVOS2.RSP /L1:c:\ktemp\NAVOS2.log /X

The parameters in the example above include the following:

- Product Name (/P)
- Catalog File (/C)
- Response File (/R)
- Log File (/L1)
- Silent Install switch (/X)

Be sure to also update the **SourceLocation** keyword to include the **full network path** (e.g. S:\software\Symantec\NAV).

For more details about the Response file, see the section, "File and Parameter Dependency," below.

3. Test the procedure

Run NAVOS2UP.EXE from a workstation to test the parameters in the NAVOS2UP.INI and Response files. Use the log created by the Software Installer to record the activity and problems, if any.

4. Troubleshoot the test

The IBM installer generates a Log file that records the success or failure of the installation procedure.

/L = log file can be determined if operation succeeded, or any errors that prevented installation.

IBM uninstaller also produces a log – that can be read to analyze any problems with the uninstall procedure for IBM AntiVirus for OS/2.

5. Edit the user's login script

Once the procedure has been tested, the final step is to edit the user's login script to add a command line to launch NAVOS2UP.EXE.

File and Parameter Dependency

For a silent installation of Norton AntiVirus for OS/2 to work, a number of parameters in several files must be set precisely. Incorrect, incomplete or conflicting parameters will cause the silent installation to fail.

The interdependent files include:

> NAVOS2.ICF, the Catalog file
>
> SAMPLE.CMD the sample command-line parameter that can be used in NAVOS2.INI or in a login script
>
> NAVOS2.PKG
>
> SAMPLE.RSP, a sample Response file, that can be renamed NAVOS2.RSP

The interdependencies between the parameters of these files are discussed in the following sections.

The Catalog file (.icf) and the Command Line Parameters (.cmd or NAVOS2.INI)

The example shown on the next page highlights the first pair of keyword values that must match.

The **NAME Keyword** in the Package section of the Catalog file (NAVOS2.ICF) must match the **Product Name** on the INSTALL command line parameter (/P) used in the NAVOS2UP.INI file. This command line may also be executed alone in the login script, without the use of NAVOS2UP.EXE if that is necessary.

Warning: We strongly encourage you NOT to change the catalog file NAVOS2.ICF. A copy of this file is included in archives used for uninstall operations. If you change the contents of NAVOS2.ICF, the file may become incompatible with the copy used for uninstall operations, and therefore any attempt to use the Uninstall utility program will fail.

```
* English version of NAVOS2.ICF

CATALOG
* Localize this string
  NAME         = 'Norton AntiVirus name in navos2.icf file.',
* Localize this string
  DESCRIPTION = 'This is Norton AntiVirus for OS/2 version 5.0 from the icf file.'

* VRM is Version(xx), Release(yy), and modification(zz) in the form of xxyyzz
PACKAGE
  NAME         = 'Norton AntiVirus',
  NUMBER       = '0000-000',
  FEATURE      = '0000',
  VRM          = '050000',
  PACKA
  PKGDE
* This
* The f
  SIZE
  UPDAT
```

```
INSTALL /P:"Norton AntiVirus" /C:C:\INSTALL\NAVOS2.ICF /R:C:\INSTALL\NAVOS2.RSP /L1:c:\ktemp\NAVOS2.log
/X
```

The Package file (.pkg) and the Response file (.rsp)

The component name in the Package file (.pkg) and the Response file must also be the same.

In the Response file (.rsp), the setting for the COMP keyword must be the same as the value of the NAME keyword in the COMPONENT section of the Package (.pkg) file.

```
……<deletia>
*----------------------------------------------------------------------
*  Component entries
*----------------------------------------------------------------------
COMPONENT
   NAME = 'NAVOS2',
   ID           = 'NAVOS2',
   DISPLAY      = 'NO',
   SIZE         = '0'

COMPONENT
   NAME = 'VIRUSDEFS',
   ID           = 'VDEFS',
   DISPLAY      = 'NO',
   SIZE         = '0'

*----------------------------------------------------------------------
*  Component entry for NAV OS/2.
*  You need to modify the SIZE entry.
*----------------------------------------------------------------------
COMPONENT
* String to localize
   NAME = 'Norton AntiVirus for OS/2',
* String to localize
   DESCRIPTION = 'Norton AntiVirus for OS/2',
   REQUIRES     = 'N
   DISPLAY      = 'Y
* This needs to be se
* The following is th
   SIZE         = '98
*---------------------
*  Exit to define pro
```

```
FILE              = C:\NAV001
AUX1              = C:\VDEF001
COMP              = Norton AntiVirus for OS/2
CFGUPDATE         = MANUAL
OVERWRITE         = YES
SAVEBACKUP        = NO
DELETEBACKUP      = NO
```

Reference Documentation

For additional commentary about the NAVOS2UP.INI parameters, refer to the Norton AntiVirus for OS/2 Distribution Guide PDF file in the \\DOCS\OS2 folder on the Solutions CD.

- Norton AntiVirus for OS/2 Distribution Guide PDF

- Norton AntiVirus for OS/2 User's Guide PDF

- Norton AntiVirus for OS/2 Readme.txt file

- IBM Software Installer Help